BRUHUT BANGALURU MAHANAGARA PALIKE

NAME OF WORK: Improvements to roads and drains at Kuvempunagar 1st Stage and surrounding areas in ward no.11 in Kuvempunagar

2019

DETAILED ESTIMATE

SUBMITTED TO B.B.M.P, BANGALORE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Kuvempunagar 1st Stage and surrounding areas in ward no.11 in Kuvempunagar

								Estimation Cost.Rs	**9900000.00**
Sl No	**Description of work**		**Mesurement**				**Qty**	**Rate**	**Amount**
		Unit	**No.**	**L**	**B**	**D**			
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Drain Desilt								
	2nd Cross Road	Cum	2	55.90	0.60	0.50	33.54		
	3rd Cross Road Tippu Sultan Road	Cum	2	65.30	0.60	0.50	39.18		
	4th Cross Road (TP Kailasm Road)	Cum	2	67.30	0.60	0.50	40.38		
	4th Cross (TP Kailasm Opp Road)	Cum	1	32.70	0.60	0.50	9.81		
		Cum	1	20.70	0.60	0.50	6.21		
	For Flagging Course								
	2nd Cross Road	Cum	2	55.90	0.30	0.40	13.42		
	3rd Cross Road Tippu Sultan Road	Cum	2	65.30	0.30	0.40	15.67		
	4th Cross Road (TP Kailasm Road)	Cum	2	67.30	0.30	0.40	16.15		
	4th Cross (TP Kailasm Opp Road)	Cum	1	32.70	0.30	0.40	3.92		
		Cum	1	20.70	0.30	0.40	2.48		
	For New Drain								
	Church Road (9th Cross Road)	Cum	2	60.00	1.05	0.90	113.40		
	Government School Road 10th Cross Road	Cum	1	33.20	1.05	0.90	31.37		
	10th cross to Church Road	Cum	1	29.20	1.10	0.90	28.91		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**354.45**	**207.60**	**73584.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	2nd Cross Road	Sqm	2	55.90	1.80		201.24		
	3rd Cross Road Tippu Sultan Road	Sqm	2	65.30	1.80		235.08		
	4th Cross Road (TP Kailasm Road)	Sqm	2	67.30	1.80		242.28		
	4th Cross (TP Kailasm Opp Road)	Sqm	1	32.70	1.80		58.86		
		Sqm	1	20.70	1.80		37.26		
						Sub Total	774.72		
	Consider 30% Missing or Damaged Slab						**232.42**		
	Basic rate							105.00	
	Area weightage 6%							6.30	
	Total						**542.30**	**111.30**	**60359.00**

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.1)								
	Consider 30% Missing or Damaged Slab						**232.42**		
	Basic rate							700.00	
	Area weightage 6%							42.00	
	Total						**232.42**	**742.00**	**172453.00**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	For Flagging Course								
	2nd Cross Road	Cum	2	55.90	0.30	0.15	5.03		
	3rd Cross Road Tippu Sultan Road	Cum	2	65.30	0.30	0.15	5.88		
	4th Cross Road (TP Kailasm Road)	Cum	2	67.30	0.30	0.15	6.06		
	4th Cross (TP Kailasm Opp Road)	Cum	1	32.70	0.30	0.15	1.47		
		Cum	1	20.70	0.30	0.15	0.93		
	For CC Road								
	Sri Manjunath Layout Singapura								
	7th Cross Road	Cum	1	42.20	5.85	0.15	37.03		
	Ashraya Layout 3rd A Cross Connecting								
		Cum	1	60.00	4.40	0.15	39.60		
	Kanaka Bhavana Front Road	Cum	1	101.50	5.00	0.15	76.13		
	Kuvempu Nagar								
	9th Cross Church Road	Cum	1	86.80	5.35	0.15	69.66		
	Nammura Anganavadi Near Church	Cum	1	30.60	6.05	0.15	27.77		
	6th Cross Road (Mariyamma Temple)	Cum	1	34.80	6.90	0.15	36.02		
	Maramma Temple Road	Cum	1	25.30	7.00	0.15	26.57		
	Muniswamappa Layout								
	1st Cross Road	Cum	1	83.00	3.85	0.15	47.89		
	Singapur Layout								
	Cross Road	Cum	1	56.60	4.2	0.15	35.43		
	Singapura								
	KiranDeep Nivas House Road	Cum	1	30.50	4.35	0.15	19.90		
	#13 Surabhi House Road	Cum	1	31.60	3.80	0.15	18.01		
	#120 Ashirvada House Road	Cum	1	65.70	4.20	0.15	41.39		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Deduction								
	Ugd Chamber	Cum	-5	0.44		0.15	-0.33		
				Area of Circle=(3.14X0.75²)/4=0.44					
	-	Cum	-2	0.50		0.15	-0.15		
				Area of Circle=(3.14X0.8²)/4=0.50					
		Cum	-1	1.70	0.6	0.15	-0.15		
		Cum	-1	2.60	6.0	0.15	-2.34		
		Cum	-1	1.30	1.2	0.15	-0.23		
		Cum	-1	2.30	5.5	0.15	-1.90		
	Basic rate							5102.00	
	Area weightage 6%							306.12	
						Total	**489.65**	**5408.12**	**2648104.00**
5	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm KBS No.5.4 (P.No-27,I No-5.26.1)								
	For Flagging Course								
	2nd Cross Road	Sqm	4	55.90		0.60	134.16		
	3rd Cross Road Tippu Sultan Road	Sqm	4	65.30		0.40	104.48		
	4th Cross Road (TP Kailasm Road)	Sqm	4	67.30		0.40	107.68		
	4th Cross (TP Kailasm Opp Road)	Sqm	2	32.70		0.40	26.16		
		Sqm	2	20.70		0.40	16.56		
	Basic rate							962.00	
	Area weightage 6%							57.72	
						Total	**389.04**	**1019.72**	**396712.00**
6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	For Flagging Course								
	2nd Cross Road	Cum	4	55.90	0.20	0.10	4.47		
	3rd Cross Road Tippu Sultan Road	Cum	4	65.30	0.20	0.10	5.22		
	4th Cross Road (TP Kailasm Road)	Cum	4	67.30	0.20	0.10	5.38		
	4th Cross (TP Kailasm Opp Road)	Cum	2	32.70	0.20	0.10	1.31		
		Cum	2	20.70	0.20	0.10	0.83		
	Basic rate							5422.00	
	Area weightage 6%							325.32	
	Total						**17.22**	**5747.32**	**98946.00**

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	New Drain								
	Church Road (9th Cross Road)	Cum	2	60.00	1.05	0.15	18.90		
	Government School Road 10th Cross Road	Cum	1	33.20	1.05	0.15	5.23		
	10th cross to Church Road	Cum	1	29.20	1.10	0.15	4.82		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
						Total	**28.95**	**5505.64**	**159372.00**
8	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Bottom Raft								
	Road)	Cum	2	60.00	0.75	0.15	13.50		
	Government School Road 10th Cross Road	Cum	1	33.20	0.75	0.15	3.74		
	10th cross to Church Road	Cum	1	29.20	0.90	0.15	3.94		
	Walls								
	Road)	Cum	4	60.00	0.15	0.60	21.60		
	Government School Road 10th Cross Road	Cum	2	33.20	0.15	0.60	5.98		
	10th cross to Church Road	Cum	2	29.20	0.15	0.60	5.26		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**54.01**	**7070.20**	**381855.00**
9	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum					54.01		
		kg	Steel assumed 70Kg/Cum of Concrete				3780.63		
		tonne					**3.78**		
	Basic rate							68233.00	
	Area weightage 6%							4093.98	
	Total						**3.78**	**72326.98**	**273442.00**
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								
	2nd Cross Road	Sqm	2	55.90	0.90		100.62		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Sri Manjunath Layout Singapura								
	7th Cross Road	Cum	1	42.20	5.85	0.10	24.69		
	Ashraya Layout 3rd A Cross Connecting Hosabalu nagar Main road								
		Cum	1	60.00	4.4	0.10	26.40		
	Kanaka Bhavana Front Road	Cum	1	101.50	5.00	0.10	50.75		
	Kuvempu Nagar								
	9th Cross Church Road	Cum	1	86.80	5.35	0.10	46.44		
	Nammura Anganavadi Near Church	Cum	1	30.60	6.05	0.10	18.51		
	6th Cross Road (Mariyamma Temple)	Cum	1	34.80	6.90	0.10	24.01		
	Maramma Temple Road	Cum	1	25.30	7.00	0.10	17.71		
	Muniswamappa Layout								
	1st Cross Road	Cum	1	83.00	3.85	0.10	31.93		
	Singapur Layout								
	Cross Road	Cum	1	56.60	4.2	0.10	23.62		
	Singapura								
	KiranDeep Nivas House Road	Cum	1	30.50	4.35	0.10	13.27		
	#13 Surabhi House Road	Cum	1	31.60	3.80	0.10	12.01		
	#120 Ashirvada House Road	Cum	1	65.70	4.20	0.10	27.59		
	Deduction								
	Ugd Chamber	Cum	-5	0.44		0.10	-0.22		
				Area of Circle=(3.14X0.75²)/4=0.44					
		Cum	-2	0.50		0.10	-0.10		
				Area of Circle=(3.14X0.8²)/4=0.50					
		Cum	-1	1.70	0.60	0.10	-0.10		
		Cum	-1	2.60	6.00	0.10	-1.56		
		Cum	-1	1.30	1.20	0.10	-0.16		
		Cum	-1	2.30	5.50	0.10	-1.27		
	Basic rate							41.00	
	Area weightage 6%							2.46	
	5Km lead= (2*1.28*5)							12.80	
	Total						**313.52**	**56.26**	**17639.00**
13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Sri Manjunath Layout Singapura								
	7th Cross Road	Cum	1	42	5.85	0.15	37.03		
	Ashraya Layout 3rd A Cross Connecting Hosabalu nagar Main road								
		Cum	1	60.00	4.40	0.10	26.40		
	Kanaka Bhavana Front Road	Cum	1	101.50	5.00	0.15	76.13		
	Basic rate							1882.00	
	Area weightage 6%							112.92	
	Total						**139.56**	**1994.92**	**278403.00**
14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Sri Manjunath Layout Singapura								
	7th Cross Road	Cum	1	42.20	5.85	0.15	37.03		
	Ashraya Layout 3rd A Cross Connecting Hosabalu nagar Main road								
		Cum	1	60.00	4.40	0.15	39.60		
	Kanaka Bhavana Front Road	Cum	1	101.50	5.00	0.15	76.13		
	Kuvempu Nagar								
	9th Cross Church Road	Cum	1	86.80	5.35	0.15	69.66		
	Nammura Anganavadi Near Church	Cum	1	30.60	6.05	0.15	27.77		
	6th Cross Road (Mariyamma Temple)	Cum	1	34.80	6.90	0.15	36.02		
	Maramma Temple Road	Cum	1	25.30	7.00	0.15	26.57		
	Muniswamappa Layout								
	1st Cross Road	Cum	1	83.00	3.85	0.15	47.89		
	Singapur Layout								
	Cross Road	Cum	1	56.60	4.2	0.15	35.43		
	Singapura								
	KiranDeep Nivas House Road	Cum	1	30.50	4.35	0.15	19.90		
	#13 Surabhi House Road	Cum	1	31.60	3.80	0.15	18.01		
	#120 Ashirvada House Road	Cum	1	65.70	4.20	0.15	41.39		
	Deduction								
	Ugd Chamber	Cum	-5	0.44		0.15	-0.33		
				Area of Circle=(3.14X0.75²)/4=0.44					
		Cum	-2	0.50		0.15	-0.15		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
				Area of Circle=(3.14X0.8²)/4=0.50					
		Cum	-1	1.70	0.60	0.15	-0.15		
		Cum	-1	2.60	6.00	0.15	-2.34		
		Cum	-1	1.30	1.20	0.15	-0.23		
		Cum	-1	2.30	5.50	0.15	-1.90		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**470.29**	**5210.96**	**2450638.00**
								Grand Total	**8363379.00**
								GST Charges (12% of estimated cost)	**1003606.00**
								For 3+1% KRIDL Charges	**334536.00**
								DPR Charges (1% of estimated cost)	**99000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**99000.00**
								Miscellenious and rounding	**479.00**
								Total Amount	**9900000.00**
								RUPEES NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer

Assistant Executive Engineer

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagar

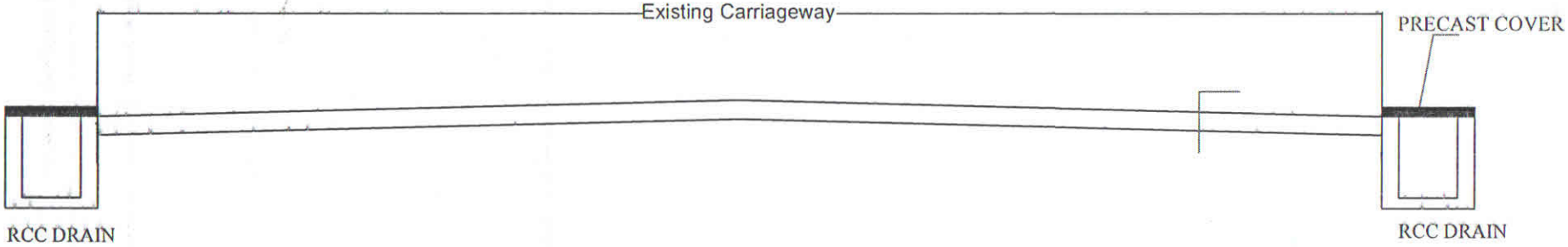
Executive Engineer

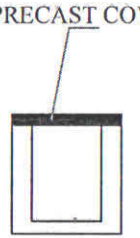
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯಸಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

ADMINISTRATIVE APPROVAL
Accorded For Rs. Re. 99.00 Ninety Nine Lakhs
Head of A/c P3727, SCSP/TSP.
Div. Ref. No. 60/19-20 Date 24/10/19
AE 24/10
EE(BTP) 24/10

Technical Sanction
Accorded For 99.00 lakhs
Head of A/C P. 3727 SC SP/TSP
CER NO : 143 Dt: 28-10-2019

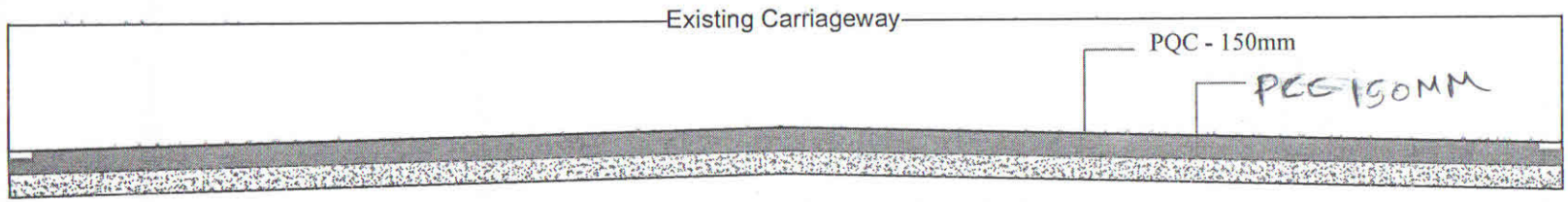
DRAWINGS





TYPICAL CROSS SECTION OF RCC DRAIN

AEE (VRP) SD

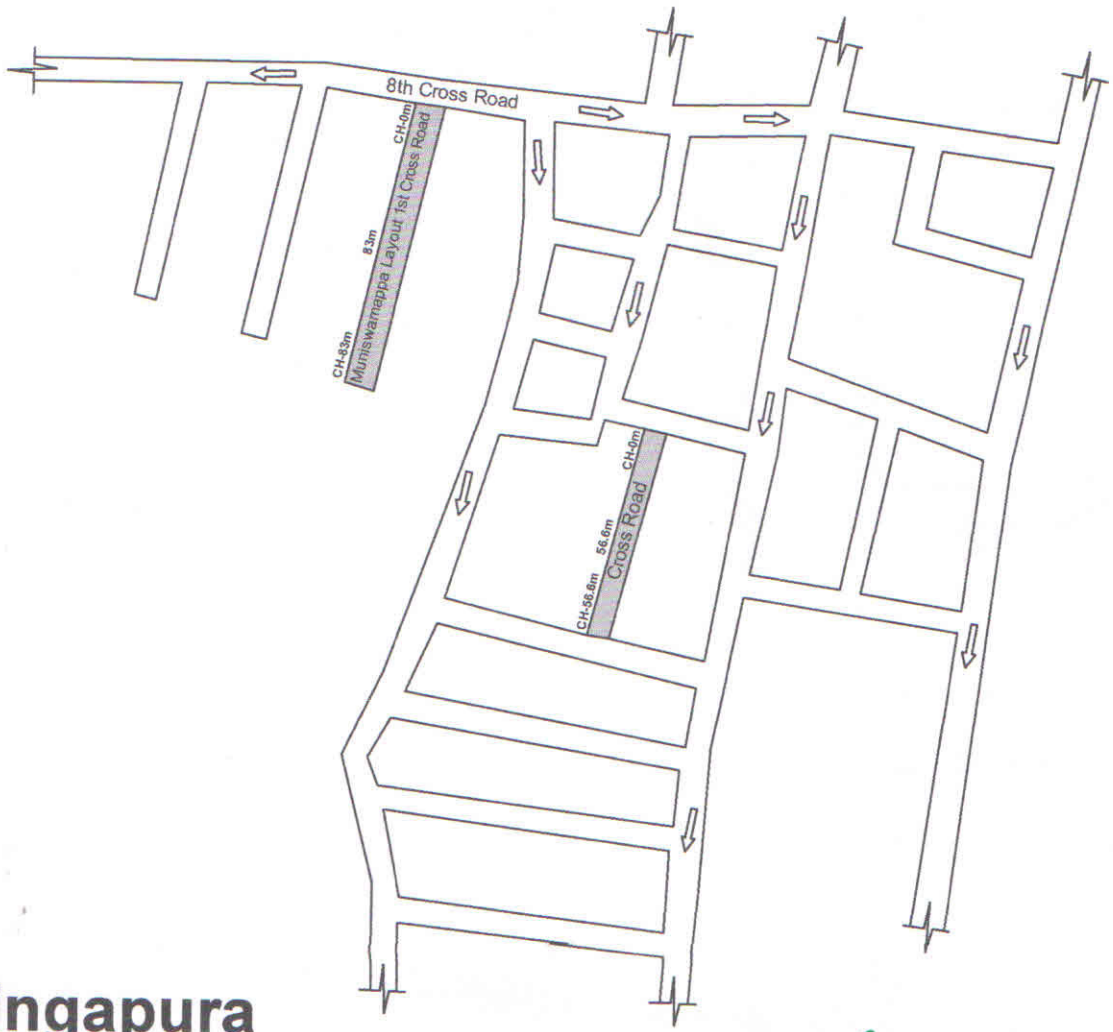


TYPICAL CROSS SECTION FOR CC ROAD

WARD MAP

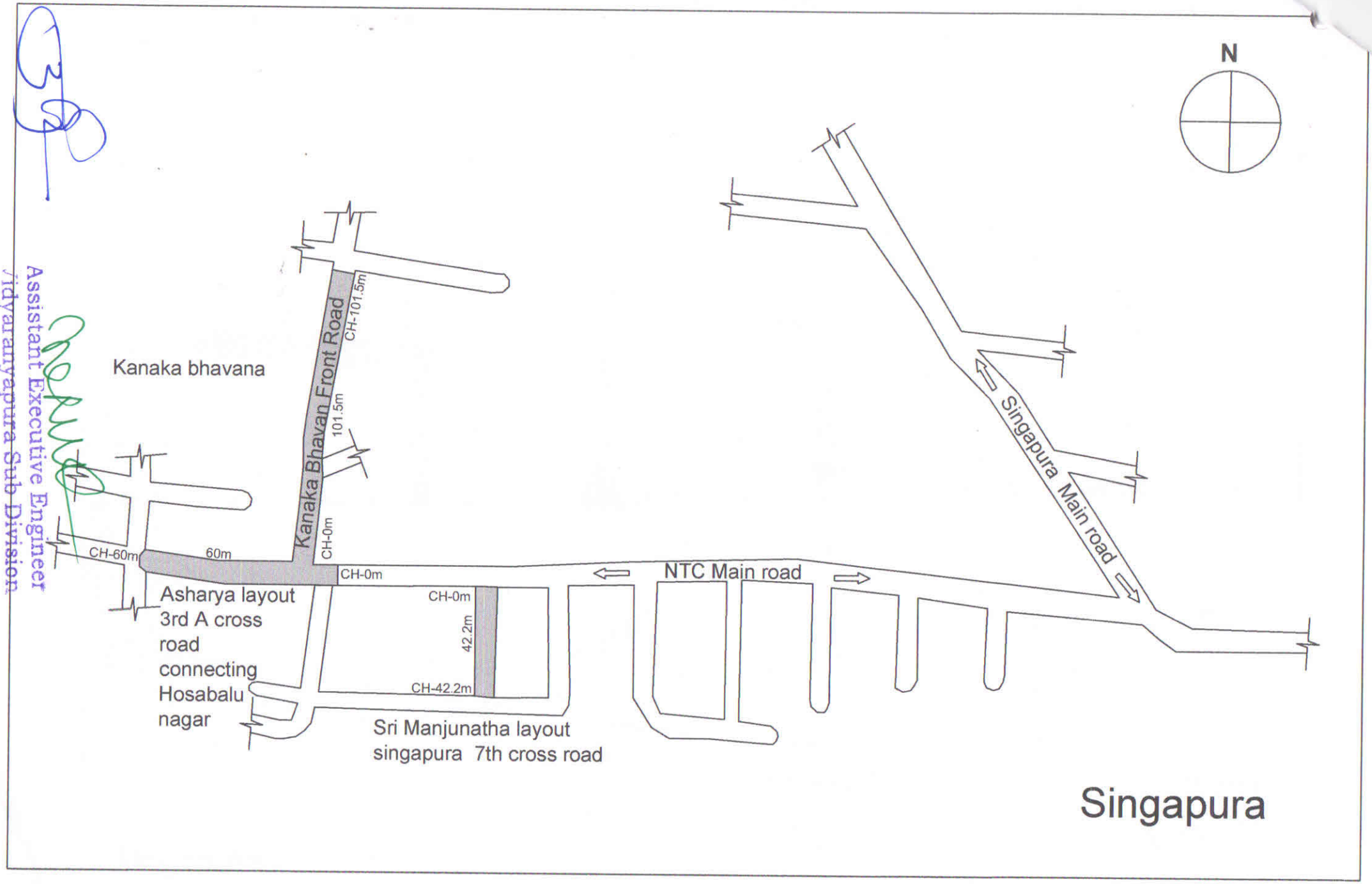
1st Stage Kuvempu Nagar

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



Singapura

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

BRUHUT BANGALURU MAHANAGARA PALIKE

NAME OF WORK:Improvements to roads and drains at Kuvempunagar 2nd Stage and surrounding areas in ward no. 11 in Kuvempunagar

2019

DETAILED ESTIMATE

SUBMITTED TO B.B.M.P, BANGALORE

BRUHAT BANGALORE MAHANAGARA PALIKE

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	New Drain								
	Hosabalu Nagara Cross road	Cum	2	115.20	1.10	1.05	266.11		
	Kuvempunagar 2nd Stage								
	3rd Main Road	Cum	2	77.8	1.10	1.05	179.60		
	Desilt for Drain								
	Kuvempunagar 2nd Stage								
	Kaliyamma Temple Road	Cum	2	70.00	0.60	0.60	50.40		
	Triveni Road	Cum	2	51.00	0.60	0.60	36.72		
	Chowddya Road	Cum	2	56.05	0.60	0.60	40.36		
	3rd Cross Road Pateel Chowdry Road	Cum	2	76.65	0.60	0.60	55.19		
	2nd Cross Road (Triveni Road)	Cum	2	72.15	0.60	0.60	51.95		
	For Flagging Course								
	Kuvempunagar 2nd Stage								
	Kaliyamma Temple Road	Cum	2	70.00	0.30	0.60	25.20		
	Triveni Road	Cum	2	51.00	0.30	0.60	18.36		
	Chowddya Road	Cum	2	56.05	0.30	0.60	20.18		
	3rd Cross Road Pateel Chowdry Road	Cum	2	76.65	0.30	0.60	27.59		
	2nd Cross Road (Triveni Road)	Cum	2	72.15	0.30	0.60	25.97		
	Over Burden	Cum	2	30.00	0.45	0.30	8.10		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**805.73**	**207.60**	**167271.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Kuvempunagar 2nd Stage								
	Kaliyamma Temple Road	Sqm	2	70.00	1.80		252.00		
	Triveni Road	Sqm	2	51.00	1.80		183.60		
	Chowddya Road	Sqm	2	56.05	1.80		201.78		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	3rd Cross Road Pateel Chowdry Road	Sqm	2	76.65	1.80		275.94		
	2nd Cross Road (Triveni Road)	Sqm	2	72.15	1.80		259.74		
					Sub Total		**1173.06**		
	Consider 30% Missing or Damaged Slab						**351.92**		
	Basic rate							105.00	
	Area weightage 6%							6.3	
	Total						**821.14**	**111.30**	**91394.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.1)								
	Consider 30% Missing or Damaged Slab	Sqm					**351.92**		
	Basic rate							700.00	
	Area weightage 6%							42.00	
						Total	**351.92**	**742.00**	**261124.00**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	For Flagging Course								
	Kuvempunagar 2nd Stage								
	Kaliyamma Temple Road	Cum	2	70.00	0.30	0.15	6.30		
	Triveni Road	Cum	2	51.00	0.30	0.15	4.59		
	Chowddya Road	Cum	2	56.05	0.30	0.15	5.04		
	3rd Cross Road Pateel Chowdry Road	Cum	2	76.65	0.30	0.15	6.90		
	2nd Cross Road (Triveni Road)	Cum	2	72.15	0.30	0.15	6.49		
	For Road								
	Kuvempu nagar								
	RO Plant Road (church Back Side road)	Cum	1	113.10	4.95	0.15	83.98		
	10th Cross Road	Cum	1	74.30	4.85	0.15	54.05		
	3rd Cross Road Pateel Chowdry Road	Cum	1	77.30	4.7	0.15	54.73		
	Gudde Vinayaka temple back Side	Cum	1	66.00	4.95	0.15	49.01		
	Deduction								
		Cum	-8	0.64		0.15	-0.76		
				Area of Circle=(3.14X0.9²)/4=0.64					
		Cum	-1	1.70	0.60	0.15	-0.15		
	Basic rate							5102.00	
	Area weightage 6%							306.12	
						Total	**270.17**	**5408.12**	**1461133.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
5	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm KBS No.5.4 (P.No-27,I No-5.26.1)								
	For Flagging Course								
	Kuvempunagar 2nd Stage								
	Kaliyamma Temple Road	Sqm	4	70.00		0.60	168.00		
	Triveni Road	Sqm	4	51.00		0.60	122.40		
	Chowddya Road	Sqm	4	56.05		0.60	134.52		
	3rd Cross Road Pateel Chowdry Road	Sqm	4	76.65		0.60	183.96		
	2nd Cross Road (Triveni Road)	Sqm	4	72.15		0.60	173.16		
	Basic rate							962.00	
	Area weightage 6%							57.72	
						Total	**782.04**	**1019.72**	**797462.00**
6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	For Flagging Course								
	Kuvempunagar 2nd Stage								
	Kaliyamma Temple Road	Cum	4	70.00	0.20	0.10	5.60		
	Triveni Road	Cum	4	51.00	0.20	0.10	4.08		
	Chowddya Road	Cum	4	56.05	0.20	0.10	4.48		
	3rd Cross Road Pateel Chowdry Road	Cum	4	76.65	0.20	0.10	6.13		
	2nd Cross Road (Triveni Road)	Cum	4	72.15	0.20	0.10	5.77		
	Basic rate							5422.00	
	Area weightage 6%							325.32	
	Total						**26.07**	**5747.32**	**149822.00**
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	New Drain								
	Hosabalu Nagara Cross road	Cum	2	115.20	1.10	0.15	38.02		
	Kuvempunagar 2nd Stage								
	3rd Main Road	Cum	2	77.8	1.10	0.15	25.66		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
						Total	**63.67**	**5505.64**	**350564.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
8	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Bottom Raft								
	Hosabalu Nagara Cross road	Cum	2	115.20	0.90	0.15	31.10		
	Kuvempunagar 2nd Stage								
	3rd Main Road	Cum	2	77.8	0.90	0.15	20.99		
	Walls								
	Hosabalu Nagara Cross road	Cum	4	115.20	0.15	0.6	43.55		
	Kuvempunagar 2nd Stage								
	3rd Main Road	Cum	4	77.8	0.15	0.60	27.99		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**123.63**	**7070.20**	**874104.00**
9	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum					123.63		
		kg	Steel assumed 70Kg/Cum of Concrete				8654.25		
		tonne					**8.65**		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						**8.65**	**72326.98**	**625936.00**
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								
	Hosabalu Nagara Cross road	Sqm	2	115.20	0.90		207.36		
	Kuvempunagar 2nd Stage								
	3rd Main Road	Sqm	2	77.75	0.90		139.95		
	For Flagging Course								
	Kuvempunagar 2nd Stage								
	Kaliyamma Temple Road	Sqm	2	70.00	0.90		126.00		
	Triveni Road	Sqm	2	51.00	0.75		76.50		
	Chowddya Road	Sqm	2	56.05	0.90		100.89		
	3rd Cross Road Pateel Chowdry Road	Sqm	2	60.50	0.90		108.90		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	2nd Cross Road (Triveni Road)	Sqm	2	72.15	0.75		108.23		
	Missing Slabs	Sqm	10	0.90	0.60		5.40		
							873.23		
	Deduct BS Slab 24% in Front of House						**87.32**		
	Data rate							**2337.00**	
	Total						**785.90**	**2337.00**	**1836655.00**
11	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Kuvempunagar 2nd Stage								
	3rd Main Road	**Nos**	2	77.8		/0.45	346.00		
	Basic rate							408.00	
	Area weightage 6%							24.48	
	Total						**346.00**	**432.48**	**149639.00**
12	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Iitem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Kuvempunagar 2nd Stage								
	3rd Main Road	**Sqm**	2	77.8		0.35	54.43		
	Basic rate							80.00	
	Area weightage 6%							4.80	
	Total						**54.43**	**84.80**	**4616.00**
13	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Kuvempu nagar								
	RO Plant Road (church Back Side road)	Cum	1	113.10	4.95	0.20	111.97		
	10th Cross Road	Cum	1	74.30	4.85	0.20	72.07		
	3rd Cross Road Pateel Chowdry Road	Cum	1	77.30	4.7	0.20	72.97		
	Gudde Vinayaka temple back Side	Cum	1	66.00	5.0	0.20	65.34		
	Deduction								
		Cum	-8	0.64		0.20	-1.02		
				Area of Circle=(3.14X0.9²)/4=0.64					
		Cum	-1	1.70	0.6	0.20	-0.20		
	Basic rate							899.00	
	Area weightage 6%							53.94	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**321.13**	**1022.74**	**328433.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
14	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Kuvempu nagar								
	RO Plant Road (church Back Side road)	Cum	1	113.10	4.95	0.10	55.98		
	10th Cross Road	Cum	1	74.30	4.85	0.10	36.04		
	3rd Cross Road Pateel Chowdry Road	Cum	1	77.30	4.7	0.10	36.49		
	Gudde Vinayaka temple back Side	Cum	1	66.00	5.0	0.10	32.67		
	Deduction								
		Cum	-8	0.64		0.10	-0.51		
				Area of Circle=(3.14X0.9²)/4=0.64					
		Cum	-1	1.70	0.6	0.10	-0.10		
	Basic rate							41.00	
	Area weightage 6%							2.46	
	5Km lead= (2*1.28*5)							12.80	
	Total						**160.56**	**56.26**	**9034.00**
15	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Kuvempu nagar								
	RO Plant Road (church Back Side road)	Cum	1	113.10	4.95	0.15	83.98		
	10th Cross Road	Cum	1	74.30	4.85	0.15	54.05		
	3rd Cross Road Pateel Chowdry Road	Cum	1	77.30	4.7	0.15	54.73		
	Gudde Vinayaka temple back Side	Cum	1	66.00	4.95	0.15	49.01		
	Deduction								
		Cum	-8	0.64		0.15	-0.76		
				Area of Circle=(3.14X0.9²)/4=0.64					
		Cum	-1	1.70	0.60	0.15	-0.15		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**240.85**	**5210.96**	**1255047.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
								Grand Total	8362234.00
								GST Charges (12% of estimated cost)	1003469.00
								For 3+1% KRIDL Charges	334489.00
								DPR Charges (1% of estimated cost)	99000.00
								Project management And Consultancy Charges(1% of estimated cost)	99000.00
								Miscellenious and rounding	1808.00
								Total Amount	9900000.00
								RUPEES NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer

Assistant Executive Engineer

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Executive Engineer

ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

ADMINISTRATIVE APPROVAL

Accorded For Rs. 99.00 Lakhs. Ninety Nine Lakhs only

Head of A/c. P3727. Sc-Sp/TS P.

Div. Ref. No. 68/19-20 Date 24/10/19

24/10

AE

EE(BTP)

Accorded For 99.00 Ninety NN Lakh

Head of A/C. P-3727

CER NO : 1444 Dt: 28-10-19

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:Improvements to roads and drains at Singapura and sorrounding areas in ward no.11 in kuvempunagara

Estimated cost.Rs 9900000.00

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	Earthwork excavation by manual means for roadsand, drains and similar works in oridinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of colds complete as per specifications complete as per the directions of the Engineer-in-charge of the work .								
	Desilt								
	Singapura layout								
	2nd main road	Cum	2	370	0.60	0.6	266.40		
	2nd main	Cum	1	55.0	0.60	0.6	19.80		
	Singapura layout								
	1st main	Cum	2	402.0	0.50	0.5	201.00		
	Varadappa layout								
	1st main	Cum	2	118.0	0.50	0.5	59.00		
	1st main rightside								
	3rd cross	Cum	2	53.0	0.60	0.6	38.16		
	1st main rightside								
	2nd cross	Cum	2	59.0	0.60	0.6	42.13		
	1st main rightside								
	1st cross	Cum	2	40.0	0.60	0.6	28.82		
	1st main left side								
	3rd cross	Cum	2	70.85	0.60	0.6	51.01		
	1st main left side								
	4th cross	Cum	2	92.9	0.60	0.6	66.89		
	2nd main	Cum	2	117.0	0.60	0.6	84.24		
	4th main	Cum	2	123.0	0.50	0.5	61.50		
	NEW DRAIN								
	Singapura layout								
	6th cross	Cum	2	41.3	1.10	1.0	90.86		
	For flagging coarce								
	Singapura layout								
	2nd main road	Cum	2	205	0.30	0.6	73.80		
	2nd main								
	cross road 1	Cum	2	16.0	0.30	0.6	5.76		
	Singapura layout								
	1st main	Cum	2	140.0	0.30	0.6	46.20		
	Varadappa layout								
	1st main	Cum	2	49.0	0.30	0.6	17.64		
	1st main rightside								
	3rd cross	Cum	2	27.0	0.30	0.4	5.67		
	1st main rightside								
	2nd cross	Cum	2	34.0	0.30	0.4	7.14		
	1st main rightside								
	1st cross	Cum	1	10.6	0.30	0.4	1.28		
	1st main left side								
	3rd cross	Cum	2	25.00	0.30	0.4	6.00		
	1st main left side								
	4th cross	Cum	2	40.00	0.30	0.4	8.40		
	2nd main	Cum	2	80.00	0.30	0.4	19.20		
	4th main	Cum	2	70.00	0.30	0.4	14.70		

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Basic Rate							130.00	
	Area weightage 6%							7.80	
	5km lead & lift =57+(2*1.28*5)							69.80	
	Total						**1215.59**	**207.60**	**252357.50**
2	Removing and refixing stone slabs of drain and pointing in CM(1:3)								
	Drain(sides and bottom)		**Width=perimeter of drain in U Shape**						
	Singapura layout								
	2nd main road	Sqm	2	370	1.8		1332.00		
	2nd main cross road	Sqm	1	55	1.8		99.00		
	Singapura layout								
	1st main	Sqm	2	402	1.35		1085.40		
	Varadappa layout								
	1st main								
	R H S	Sqm	2	118	1.35		318.60		
	1st main rightside								
	3rd cross	Sqm	2	53	1.8		190.80		
	1st main rightside								
	2nd cross	Sqm	2	59	1.8		212.40		
	1st main rightside								
	1st cross	Sqm	2	40	1.8		144.00		
	1st main left side								
	3rd cross	Sqm	2	70.80	1.8		254.88		
	1st main left side								
	4th cross	Sqm	2	92.90	1.8		331.84		
	2nd main	Sqm	2	117	1.35		315.90		
	4th main	Sqm	2	123	1.35		332.10		
					Sub Total		4616.92		
	Consider 26% Missing or damaged slabs						1214.25		
							3402.67		
	Basic Rate							105.00	
	Area weightage 6%							6.30	
	Total						**3402.67**	**111.30**	**378717.08**
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc and as per the directions of the Engineer-in-charge of the work .								
	Consider 26% Missing or damaged slabs	Sqm					1214.25		
	Basic Rate							700.00	
	Area weightage 6%							42.00	
	Total						**1214.25**	**742.00**	**900973.24**
4	Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .								

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	For flagging cource								
	Singapura layout								
	2nd main road	Cum	2	205	0.3	0.15	18.45		
	2nd main								
	cross road 1	Cum	1	16	0.3	0.15	0.72		
	Singapura layout								
	1st main	Cum	2	140	0.3	0.15	13.51		
	Varadappa layout								
	1st main	Cum	2	49	0.3	0.15	4.41		
	1st main rightside								
	3rd cross	Cum	2	27	0.3	0.15	2.43		
	1st main rightside								
	2nd cross	Cum	2	34	0.3	0.15	3.06		
	1st main rightside								
	1st cross	Cum	1	10.6	0.3	0.15	0.48		
	1st main left side								
	3rd cross	Cum	2	25	0.3	0.15	2.25		
	1st main left side								
	4th cross	Cum	1	40	0.3	0.15	1.80		
	2nd main	Cum	2	80	0.3	0.15	7.20		
	4th main	Cum	2	70	0.3	0.15	6.28		
	Basic Rate							5102.00	
	Area weightage 6%							306.12	
	Total						**60.59**	**5408.12**	**327675.29**
5	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm								
	For flogging coarce								
	Singapura layout								
	2nd main road	Sqm	4	205		0.6	525.95		
	2nd main								
	cross road 1	Sqm	4	16		0.6	42.11		
	Singapura layout								
	1st main	Sqm	4	140		0.6	359.42		
	Varadappa layout								
	1st main	Sqm	4	49		0.6	126.46		
	1st main rightside								
	3rd cross	Sqm	4	27		0.6	65.76		
	2nd cross	Sqm	4	34		0.6	82.56		
	1st main rightside								
	1st cross	Sqm	2	11		0.6	12.72		
	1st main left side								
	3rd cross	Sqm	4	28		0.4	48.16		
	1st main left side								
	4th cross	Sqm	4	40		0.6	103.55		
	R H S								
	2nd main	Sqm	4	80		0.6	206.27		
	4th main	Sqm	4	75		0.6	193.97		
	Basic Rate							962.00	
	Area weightage 6%							57.72	
	Total						**1766.95**	**1019.72**	**1801796.13**

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
6	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.53cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	For Flagging coarce								
	coping concrete								
	Singapura layout								
	2nd main road	Cum	4	205	0.2	0.1	16.40		
	2nd main								
	cross road 1	Cum	4	16	0.2	0.1	1.28		
	Singapura layout								
	1st main	Cum	4	140	0.2	0.1	11.20		
	Varadappa layout								
	1st main	Cum	4	49	0.2	0.1	3.92		
	1st main rightside								
	3rd cross	Cum	4	27	0.2	0.1	2.16		
	1st main rightside								
	2nd cross	Cum	4	34	0.2	0.1	2.72		
	1st main rightside								
	1st cross	Cum	2	10.6	0.2	0.1	0.42		
	1st main left side								
	3rd cross	Cum	2	25	0.2	0.1	1.00		
	1st main left side								
	4th cross	Cum	4	40	0.2	0.1	2.77		
	2nd main	Cum	4	80	0.2	0.1	6.40		
	4th main	Cum	4	70	0.2	0.1	5.59		
	Basic Rate							5422.00	
	Area weightage 6%							325.32	
	TOTAL						**53.86**	**5747.32**	**309539.16**
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	New drain pcc								
	Singapura layout								
	6th cross	Cum	2	47.4	1.1	0.15	15.64		
	Basic Rate							5194.00	
	Area weightage 6%							311.64	
	TOTAL						**15.64**	**5505.64**	**86119.22**
8	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.430 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
	Singapura layout								
	6th cross								
	Bottom Raft	Cum	2	47.40	0.9	0.15	12.19		
	Side wall								
	6th cross	Cum	4	47.40	0.15	0.65	18.49		

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Basic Rate								
	Area weightage 6%							6670.00	
	TOTAL							400.20	
							30.67	**7070.20**	**216860.99**
9	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .								
	For drain 60 kg	tonne	1	30.66	0.060		1.84		
	Basic Rate							68233.00	
	Area weightage 6%							4093.98	
	TOTAL						**1.84**	**72326.98**	**133039.69**
10	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications C : C 1:1.5:3 Including all cost of material (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab. and as per the directions of the Engineer-in-charge of the work .								
	Cover slab								
	Singapura layout								
	2nd main road	Sqm	2	204	0.90		367.20		
	2nd main								
	cross road 1	Sqm	2	17	0.90		30.60		
	Singapura layout								
	1st main	Sqm	2	131	0.90		235.80		
	Varadappa layout								
	1st main	Sqm	2	49	0.90		88.20		
	1st main rightside								
	3rd cross	Sqm	2	28	0.90		50.40		
	1st main rightside								
	2nd cross	Sqm	2	29	0.75		43.50		
	1st main rightside								
	1st cross	Sqm	1	10.6	0.75		7.95		
	1st main left side								
	3rd cross	Sqm	1	19	0.75		14.25		
	1st main left side								
	4th cross	Sqm	2	36	0.75		54.00		
	2nd main	Sqm	2	68	0.90		122.40		
	4th main	Sqm	2	66	0.90		118.80		
	New drain								
	Singapura layout								
	6th cross	Sqm	2	36	0.90		63.80		
	Data rate								
	TOTAL						**1196.90**	**2337.00**	**2797147.37**
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge								
	Kerb stone								
	Singapura layout								
	2nd main road	m	2	177			354.00		

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	2nd main								
	cross road 1	m	2	14			28.00		
	Singapura layout								
	1st main	m	2	122			244.00		
	Varadappa layout								
	1st main	m	2	49			98.00		
	1st main rightside								
	3rd cross	m	2	21			42.00		
	1st main rightside								
	2nd cross	m	2	17			34.00		
	1st main rightside								
	1st cross	m	1	10.6			10.60		
	1st main left side								
	3rd cross	m	2	18			36.20		
	1st main left side								
	4th cross	m	2	32			64.00		
	2nd main	m	2	64			128.00		
	4th main	m	2	66			131.60		
						Sub Total	1170.40		
						1170/0.45	2600.9		
	Basic Rate							408.00	
	Area weightage 6%							24.48	
	TOTAL						**2601**	**432.48**	**1124832.43**
12	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification As per the direction of Engineer incharge								
	Kerb stone								
	Singapura layout								
	2nd main road	Sqm	2	177.00		0.35	123.9		
	2nd main								
	cross road 1	Sqm	2	14.00		0.35	9.8		
	Singapura layout								
	1st main	Sqm	2	122.00		0.35	85.4		
	Varadappa layout								
	1st main	Sqm	2	49.00		0.35	34.055		
	1st main rightside								
	3rd cross	Sqm	2	21.00		0.35	14.7		
	2nd cross	Sqm	2	17.00		0.35	11.9		
	1st main rightside								
	1st cross	Sqm	1	10.60		0.35	3.71		
	1st main left side								
	3rd cross	Sqm	2	18.00		0.35	12.6		
	1st main left side								
	4th cross	Sqm	2	32.00		0.35	22.4		
	2nd main	Sqm	2	64.00		0.35	44.8		
	4th main	Sqm	2	66.00		0.35	46.33		
	Basic Rate							80.00	
	Area weightage 6%							4.80	
	TOTAL						**409.60**	**84.80**	**34733.83**
								Grand total	**8363791.92**
								KRIDL @ 3+1=4%	**334551.68**
								DPR & PMC Charges @ 2%	**198000.00**

Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
						-		1003655.03
							GST Charges (12% of estimated cost)	1024079.10
							Miscellenious and rounding	1.37 568.66
							Total Amount	9900000.00
							RUPEES NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum

4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
Vidhyaranyapuram Sub Division
BBMP

Assistant Executive Engineer
Vidhyaranyapuram Sub Division
BBMP

Executive Engineer
Vidhyaranyapuram Division
BBMP

ADMINISTRATIVE APPROVAL

Accorded For Rs. 99.00 Ninty Nine Lakhs only

Head of A/c. P3727, SC-SP/TSP

Div. Ref. No. 62/19-20 Date. 24-10-19

AE 29/10

EE(BTP) 24/10

Technical Sanction
Accorded For RS99.00lakhsonly
Head of A/C. P3727
CER NO : 145 Dt: 28.10.2019

TA — CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

Estimation Cost.Rs 9900000.00

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Desilt for Drain								
	Mariyamma Block								
	West Side								
	Cross Road 4	Cum	2	51.90	0.75	0.45	35.03		
	Cross Road 5	Cum	2	50.75	0.75	0.45	34.26		
	East Side								
	Cross Road 3	Cum	2	39.20	0.75	0.45	26.46		
	Cross Road 4	Cum	2	33.40	0.75	0.45	22.55		
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Cum	1	173.50	0.60	0.6	62.46		
	Flagging Course								
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	**Cum**	**1**	**173.50**	0.30	0.6	31.23		
	New Drain								
	Mariyamma Block								
	East Side								
	Cross Road -2	**Cum**	2	42.58	1.15	1	97.92		
	West Side								
	Cross Road -3	**Cum**	1	55.65	1.05	0.95	55.51		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	**Cum**	1	30.80	1.15	1	35.42		
	West Side								
	Mariyamma Block Main Road (Dead End)	**Cum**	2	30.10	1.15	1	69.23		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	**Cum**	1	62.50	1.15	0.95	68.28		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	**Cum**	1	70.50	1.10	0.95	73.67		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**612.02**	**207.60**	**127056.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Sqm	1	173.50	1.80		309.60		
	Consider 30% Missing or Damaged Slab						**92.88**		
	Basic rate							105.00	
	Area weightage 6%							6.3	
	Total						**216.72**	**111.30**	**24121.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.1)								
	Consider 30% Missing or Damaged Slab Qty Vide From I no 02						**92.88**		
	Basic rate							700.00	
	Area weightage 6%							42.00	
						Total	**92.88**	**742.00**	**68917.00**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	For Flagging Course								
	Mariyamma Block								
	West Side								
	Cross Road 4	Cum	2	51.90	0.75	0.15	11.68		
	Cross Road 5	Cum	2	50.75	0.75	0.15	11.42		
	East Side								
	Cross Road 3	Cum	2	39.20	0.75	0.15	8.82		
	Cross Road 4	Cum	2	33.40	0.75	0.15	7.52		
	Flagging Course								
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Cum	1	173.50	0.30	0.15	7.81		
	For CC Road								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	**Cum**	1	37.00	2.60	0.15	14.43		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road 2	**Cum**	1	61.50	3.05	0.15	28.14		
	Cross Road 4	**Cum**	1	53.75	2.86	0.15	23.05		
	Cross Road 5	**Cum**	1	50.00	2.95	0.15	22.13		
	Cross Road 6	**Cum**	1	47.35	2.95	0.15	20.95		
	Cross Road 7	**Cum**	1	43.25	3.05	0.15	19.79		
	Main Road East Side								
	Cross Road 3	**Cum**	1	47.50	2.98	0.15	21.23		
	Cross Road 4	**Cum**	1	36.80	2.55	0.15	14.08		
	Cross Road 5	**Cum**	1	38.00	4.25	0.15	24.20		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	**Cum**	1	79.00	3.19	0.15	37.80		
	Varadaraj Nagar								
	2nd Main Road	**Cum**	1	176.00	4.57	0.15	120.65		
	Manhole Deduction								
		Cum	-13	0.71		0.15	-1.38		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	**Cum**	-1	2.00	0.75	0.15	-0.23		
	Basic rate							5102.00	
	Area weightage 6%							306.12	
							Total	**392.08**	**5408.12**	**2120402.00**
5	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm KBS No.5.4 (P.No-27,I No-5.26.1)								
	For Flagging Course								
	Mariyamma Block								
	West Side								
	Cross Road 4	Sqm	4	51.90		0.2	41.52		
	Cross Road 5	Sqm	4	50.75		0.2	40.60		
	East Side								
	Cross Road 3	Sqm	4	39.20		0.2	31.36		
	Cross Road 4	Sqm	4	33.40		0.4	53.44		
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Sqm	2	173.50		0.6	208.20		
	Add 5% for low lying area						12.49		
	Basic rate							962.00	
	Area weightage 6%							57.72	
							Total	**387.61**	**1019.72**	**395256.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	For Flagging Course								
	Mariyamma Block								
	West Side								
	Cross Road 4	Cum	4	51.90	0.20	0.1	4.15		
	Cross Road 5	Cum	4	50.75	0.20	0.1	4.06		
	East Side								
	Cross Road 3	Cum	4	39.20	0.20	0.1	3.14		
	Cross Road 4	Cum	4	33.40	0.20	0.1	2.67		
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Cum	2	173.50	0.20	0.1	6.94		
	Basic rate							5422.00	
	Area weightage 6%							325.32	
	Total						**20.96**	**5747.32**	**120464.00**
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	New Drain								
	Mariyamma Block								
	East Side								
	Cross Road -2	Cum	2	42.58	1.15	0.15	14.69		
	West Side								
	Cross Road -3	Cum	1	55.65	1.05	0.15	8.76		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	Cum	1	30.80	1.15	0.15	5.31		
	West Side								
	Mariyamma Block Main Road (Dead End)	Cum	2	30.10	1.15	0.15	10.38		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	Cum	1	62.50	1.15	0.15	10.78		
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	1	70.50	1.10	0.15	11.63		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
						Total	**61.56**	**5505.64**	**338952.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
8	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Bottom Raft								
	Mariyamma Block								
	East Side								
	Cross Road -2	Cum	2	42.58	0.95	0.15	12.13		
	West Side								
	Cross Road -3	Cum	1	55.65	0.85	0.15	7.10		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	Cum	1	30.80	0.95	0.15	4.39		
	West Side								
	Mariyamma Block Main Road (Dead End)	Cum	2	30.10	0.95	0.15	8.58		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	Cum	1	62.50	0.95	0.15	8.91		
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	1	70.50	0.90	0.15	9.52		
	Side Wall								
	Mariyamma Block								
	East Side								
	Cross Road -2	**Cum**	4	42.58	0.15	0.7	17.88		
	West Side								
	Cross Road -3	**Cum**	2	55.65	0.15	0.47	7.85		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	**Cum**	2	30.80	0.15	0.7	6.47		
	West Side								
	Mariyamma Block Main Road (Dead End)	**Cum**	4	30.10	0.15	0.7	12.64		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	**Cum**	2	62.50	0.15	0.65	12.19		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	2	70.50	0.15	0.65	13.75		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						121.39	7070.20	858278.00
9	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum					121.39		
		kg	Steel assumed 69.5Kg/Cum of Concrete				8436.86		
		tonne					8.44		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						8.44	72326.98	610213.00
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								
	New Cc Drain								
	Mariyamma Block								
	East Side								
	Cross Road -2	Cum	2	42.58	0.75		63.86		
	West Side								
	Cross Road -3	Cum	1	55.65	0.75		41.74		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	Cum	1	30.80	0.75		23.10		
	West Side								
	Mariyamma Block Main Road (Dead End)	Cum	2	30.10	0.75		45.15		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	Cum	1	62.50	0.75		46.88		
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	1	70.50	0.75		52.88		
	For Flagging Course								
	Mariyamma Block								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	West Side								
	Cross Road 4	**Sqm**	**2**	**51.90**	**0.75**		77.85		
	Cross Road 5	**Sqm**	**2**	**50.75**	**0.75**		76.13		
	East Side								
	Cross Road 3	**Sqm**	**2**	**39.20**	**0.75**		58.80		
	Cross Road 4	**Sqm**	**2**	**33.40**	**0.75**		50.10		
	Kuvempu Nagar								
	4th Cross Masti	**Sqm**	**1**	**116.00**	**0.90**		104.40		
	Missing Slab	**Cum**	**27**	**0.90**	**0.60**		14.58		
	Data rate							**2337.00**	
	Total						**655.46**	**2337.00**	**1531799.00**
11	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	**Cum**	1	37.00	2.60	0.2	19.24		
	Cross Road 2	**Cum**	1	61.50	3.05	0.2	37.52		
	Cross Road 4	**Cum**	1	53.75	2.90	0.2	31.18		
	Cross Road 5	**Cum**	1	50.00	3.00	0.2	30.00		
	Cross Road 6	**Cum**	1	47.35	3.00	0.2	28.41		
	Cross Road 7	**Cum**	1	43.25	3.05	0.2	26.38		
	Main Road East Side								
	Cross Road 3	**Cum**	1	47.50	3.00	0.2	28.50		
	Cross Road 4	**Cum**	1	36.80	2.60	0.2	19.14		
	Cross Road 5	**Cum**	1	38.00	4.25	0.2	32.34		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	**Cum**	1	79.00	3.20	0.2	50.56		
	Manhole Deduction								
		Cum	-11	0.71		0.2	-1.55		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	**Cum**	-1	2.00	0.75	0.2	-0.30		
	Basic rate							899.00	
	Area weightage 6%							53.94	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**301.40**	**1022.74**	**308256.00**
12	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Varadaraj Nagar								
	2nd Main Road	Sqm	1	176.00	4.57		804.99		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Manhole Deduction								
		Sqm	-2	0.71			-1.41		
	Basic rate							39.00	
	Area weightage 6%							2.34	
	Total						**803.58**	**41.34**	**33220.00**
13	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	**Cum**	1	37.00	2.60	0.15	14.43		
	Cross Road 2	**Cum**	1	61.50	3.05	0.15	28.14		
	Cross Road 4	**Cum**	1	53.75	2.90	0.15	23.38		
	Cross Road 5	**Cum**	1	50.00	3.00	0.15	22.50		
	Cross Road 6	**Cum**	1	47.35	3.00	0.15	21.31		
	Cross Road 7	**Cum**	1	43.25	3.05	0.15	19.79		
	Main Road East Side								
	Cross Road 3	**Cum**	1	47.50	3.00	0.15	21.38		
	Cross Road 4	**Cum**	1	36.80	2.60	0.15	14.35		
	Cross Road 5	**Cum**	1	38.00	4.25	0.15	24.25		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	**Cum**	1	79.00	3.20	0.15	37.92		
	Varadaraj Nagar								
	2nd Main Road	**Cum**	1	176.00	4.57	0.15	120.75		
	Manhole Deduction								
		Cum	-13	0.71		0.15	-1.38		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	**Cum**	-1	2.00	0.75	0.15	-0.23		
	Basic rate							41.00	
	Area weightage 6%							2.46	
	5Km lead= (2*1.28*5)							12.80	
	Total						**346.59**	**56.26**	**19500.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	Cum	1	37.00	2.60	0.15	14.43		
	Cross Road 2	Cum	1	61.50	3.05	0.15	28.14		
	Cross Road 4	Cum	1	53.75	2.90	0.15	23.38		
	Cross Road 5	Cum	1	50.00	3.00	0.15	22.50		
	Cross Road 6	Cum	1	47.35	3.00	0.15	21.31		
	Cross Road 7	Cum	1	43.25	3.05	0.15	19.79		
	Main Road East Side								
	Cross Road 3	Cum	1	47.50	3.00	0.15	21.38		
	Cross Road 4	Cum	1	36.80	2.60	0.15	14.35		
	Cross Road 5	Cum	1	38.00	4.25	0.15	24.25		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	Cum	1	79.00	3.20	0.15	37.92		
	Varadaraj Nagar								
	2nd Main Road	Cum	1	176.00	4.6	0.15	120.75		
	Manhole Deduction								
		Cum	-13	0.71		0.15	-1.38		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	Cum	-1	2.00	0.75	0.15	-0.23		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**346.59**	**5210.96**	**1806056.00**
								Grand Total	**8362490.00**
								For KRIDL Charges 3+1=4%	**334499.60**
								DPR Charges (1% of estimated cost)	**99000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**99000.00**

8894990=0

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
								GST Charges (12% of estimated cost)	1024058.84
								Miscellenious and rounding	764.53
								Total Amount	9900000.00
								RUPEES NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum

4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

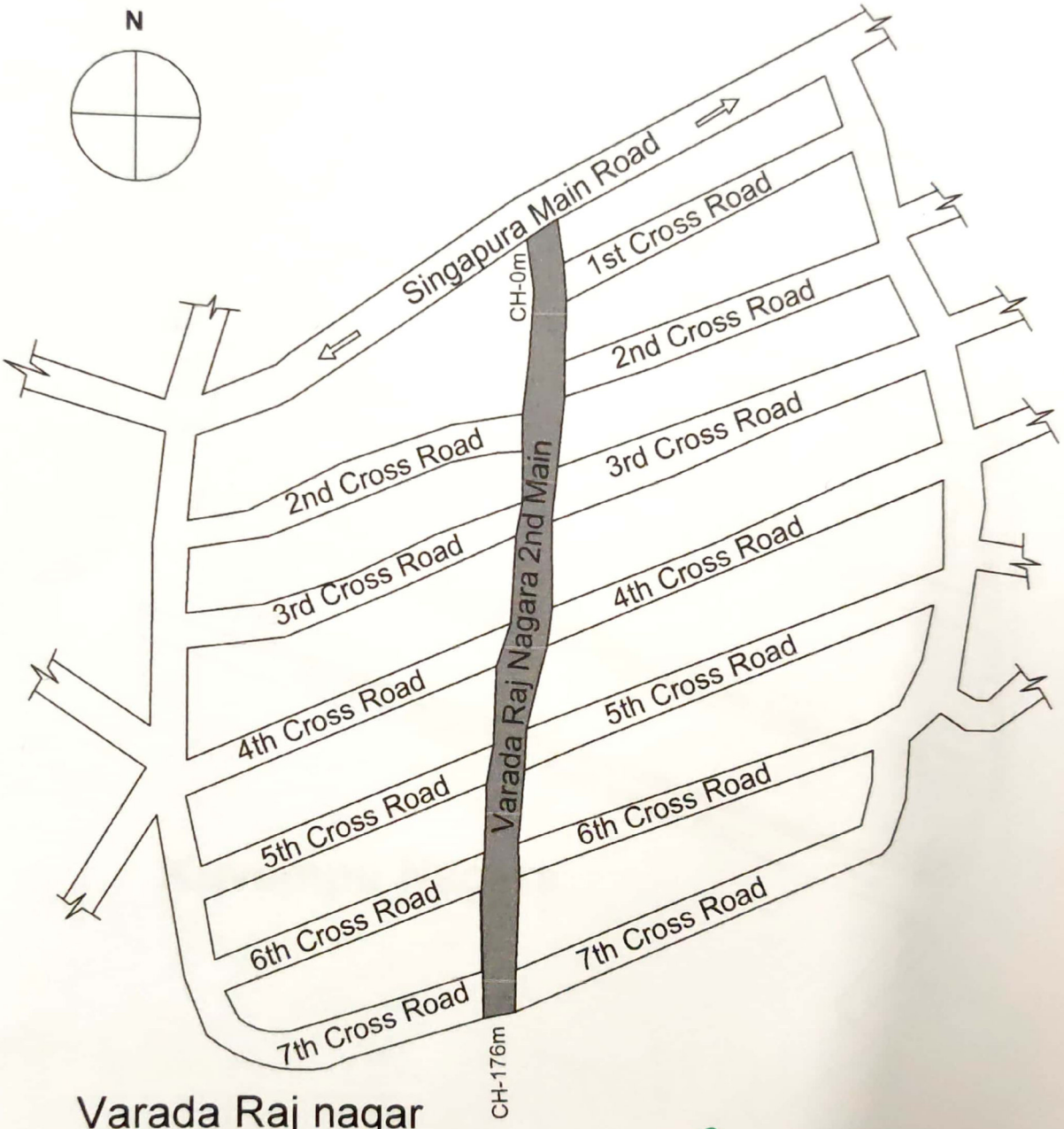
Assistant Engineer
Vidhyaranyapuram Sub Division
BBMP

Assistant Executive Engineer
Vidhyaranyapuram Sub Division
BBMP

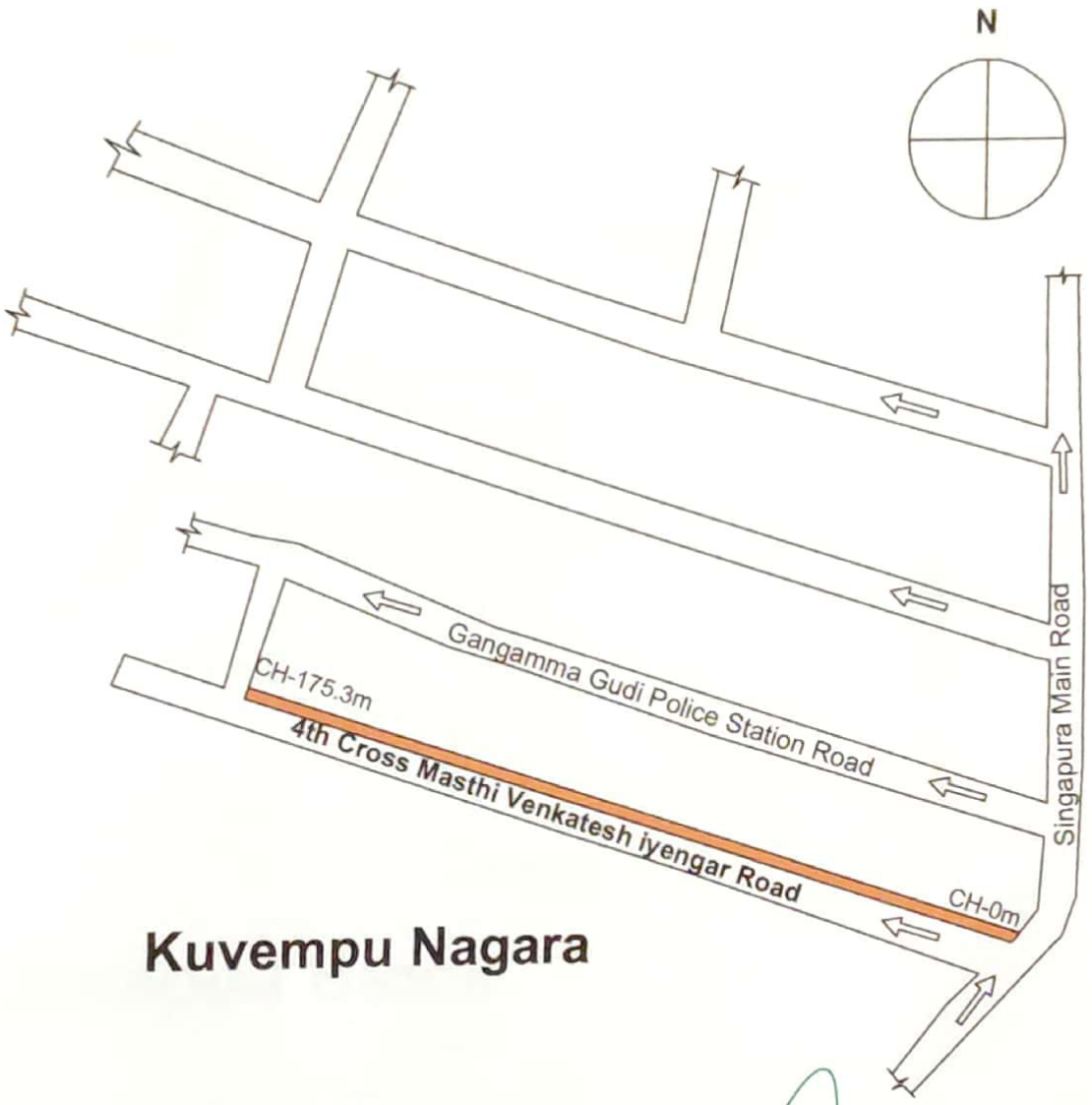
Executive Engineer
~~Vidhyaranyapuram~~ BTP Division
BBMP

ADMINISTRATIVE APPROVAL
Accorded For Rs. 99.00 Ninety Nine Lakhs only
Head of A/c. P3727, SC-SP/TSP
Adv. Ref. No. 68/19-20 Date. 24-10-19
AE 24/10
EE(BTP) 24/10

Technical Sanction
Accorded For Rs 99.00 lakhs only
Head of A/C. P3727
CER NO : 147 Dt: 28.10.2019
TA
CE (YNK)



Varada Raj nagar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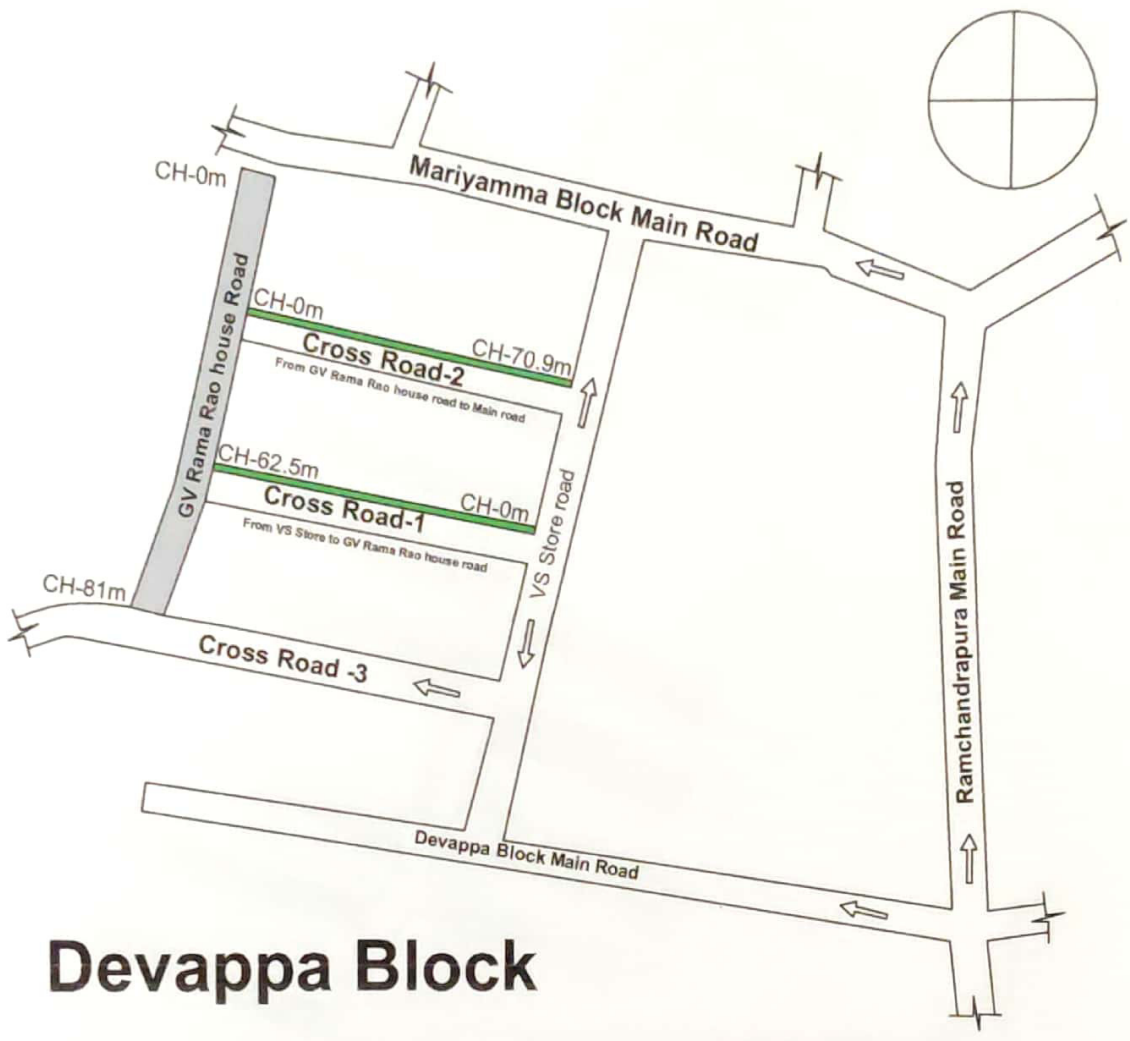
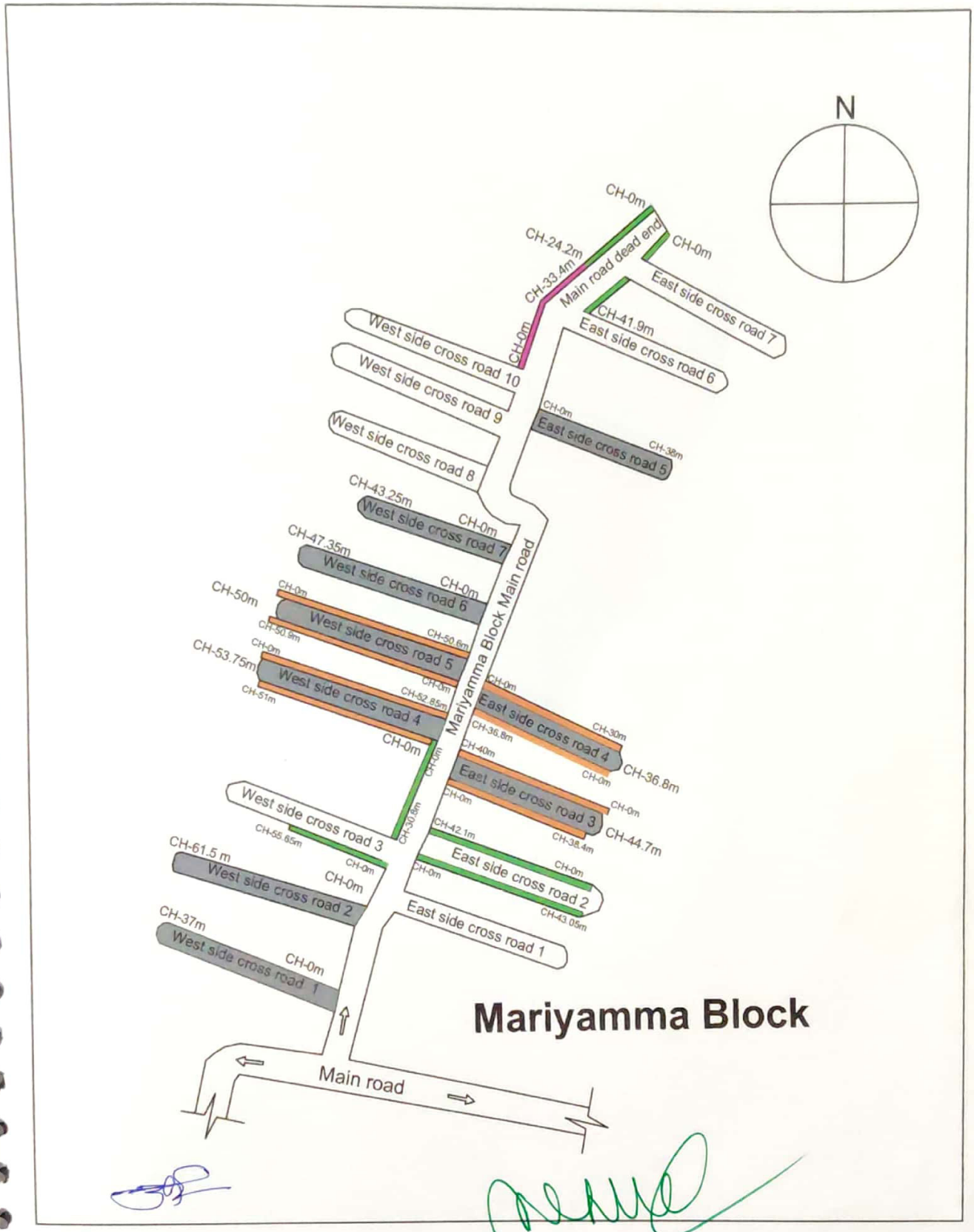
Singapura Main Road
Gangamma Gudi Police Station Road
CH-175.3m
4th Cross Masthi Venkatesh iyengar Road
CH-0m
Kuvempu Nagara



Devappa Block


N
CH-0m
CH-24.2m
CH-33.4m
Main road dead end
CH-0m
East side cross road 7
CH-41.9m
East side cross road 6
CH-0m
West side cross road 10
West side cross road 9
West side cross road 8
CH-0m
East side cross road 5
CH-38m
CH-43.25m
West side cross road 7
CH-0m
CH-47.35m
West side cross road 6
CH-0m
CH-50m
CH-0m
West side cross road 5
CH-50.6m
CH-50.9m
CH-0m
CH-53.75m
West side cross road 4
CH-0m
CH-52.85m
CH-51m
CH-0m
Mariyamma Block Main road
CH-0m
East side cross road 4
CH-30m
CH-36.8m
CH-36.8m
CH-40m
CH-0m
East side cross road 3
CH-0m
CH-44.7m
CH-38.4m
CH-0m
West side cross road 3
CH-30.8m
CH-55.85m
CH-0m
CH-42.1m
East side cross road 2
CH-0m
CH-0m
CH-43.05m
CH-61.5 m
West side cross road 2
CH-0m
East side cross road 1
CH-37m
West side cross road 1
CH-0m
Mariyamma Block
Main road